English

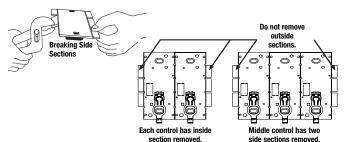


- Vierti Dimmers are not compatible with standard 3-way switches. Use only with Companion Dimmers (VT-AD).
- Companion Dimmers (VT-AD) cannot be used individually but must be used in conjunction with a Vierti Dimmer in a 3-way/4-way application.
- In any 3-way/4-way circuit, use only one Vierti Dimmer with up to four Companion Dimmers.
- DO NOT use Vierti dimmers for compact Fluorescent (Energy Saver) lamps. 10. The Vierti Dimmer may not work with dioded lamps (Sylvania™ Designer 16 or Philips® PAR-16)
- 11. Operate between 32 °F (0 °C) and 104 °F (40 °C).
- 12. The Vierti Dimmer may feel warm to the touch during normal operation.
- 13. Recommended wallbox depth is 2.5 in. (64 mm) minimum.
- 14. Maximum total wire length between all Vierti devices is 100 ft (30.5 m).
- 15. For new installations, install a test switch before installing the Dimmer, or test with a breaker.

Multigang Installation

Lutron Vierti wallplates are available in one to six gang versions. When combining controls in a wallbox, derating is required; see the Derating Chart below.

Note: Companion Dimmers do not need to be derated.



Derating Chart

	Maximum Load		
Dimmer Type	No Sides Removed	1 Side Removed	2 Sides Removed
Incandescent/Halogen 600 W 1000 W	600 W 1000 W	500 W 800 W	400 W 650 W
Magnetic Low-Voltage 600 VA / 450 W* 1000 VA / 800 W*	600 VA / 450 W* 1000 VA / 800 W*	500 VA / 400 W* 800 VA / 650 W*	400 VA / 300 W* 650 VA / 500 W*

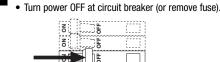
* The maximum lamp wattage is determined by the efficiency of the transformer, with 70-85% as typical. For actual transformer efficiency, contact either the fixture or transformer manufacturer. The total VA rating of the transformer(s) shall not exceed the VA rating of the Dimmer



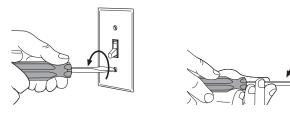
Lutron Electronics Co., Inc. 7200 Suter Road Coopersburg, PA 18036-1299 U.S.A. Made and printed in U.S.A. 1/08 P/N 030-953 Rev. B Lutron Technical Support Center 1-800-523-9466 24 hrs / 7 days www.lutron.com

Preparing for Installation



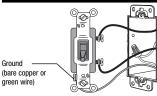


- Removing the Wallplate and the Switch
 - Remove the wallplate and the switch mounting screws.
 - · Carefully remove the switch from the wall (do not remove wires)



Identifying the Circuit Type

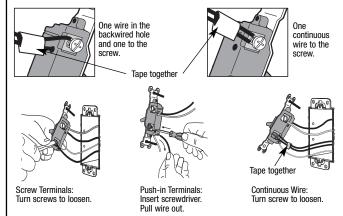
3a - Single-Location Control



One switch controlling a light fixture. This will be a single-pole switch. The switch will have two insulated wires connected to two screws of the same color plus a bare copper or green insulated wire to a green ground screw.

Disconnecting the Switch Wires

Important Note: Your wall switch may have two wires attached to the same screw (see illustrations below for examples). Tape these two wires together before disconnecting. When rewiring, connect these wires to the Dimmer the same way they were connected to the removed switch



Installing the Dimmer

Removing the Front Wallplate

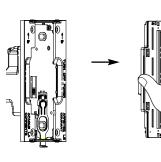
• The Dimmer has a pre-installed Vierti wallplate. Remove the wallplate before proceeding with the installation.



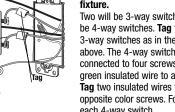
Grasp Vierti wallplate at top and pull forward to remove

Removing the Front Module 6

• The Dimmer has a pre-installed front module containing LEDs. Before proceeding with the installation, grab the module and pull it straight out. Removing the Front Module will expose the mounting holes.



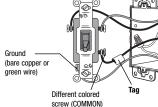
Grasp front module on sides and pull to remove.



Three or more switches controlling a light

Two will be 3-way switches and any others will be 4-way switches. Tag the wires of the two 3-way switches as in the Two-Location figure above. The 4-way switch will have insulated wires connected to four screws plus a bare copper or green insulated wire to a green ground screw. Tag two insulated wires that are connected to opposite color screws. Follow this procedure for each 4-way switch

3b - Two-Location Control



Note: Screw

switch.

placement may be

different on your

Same colored

marked IN or

Ground

(bare copper o

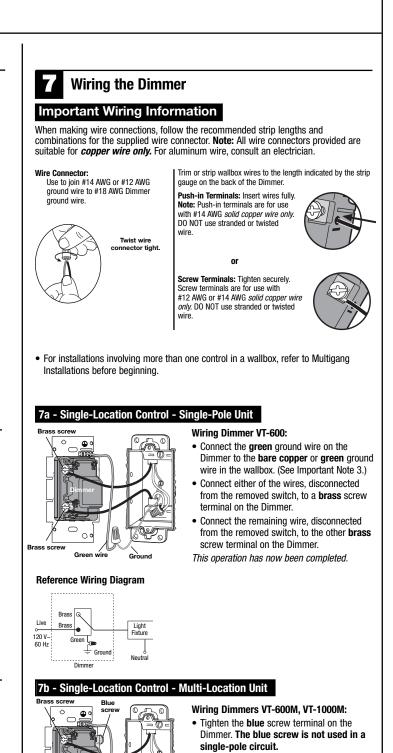
areen wire)

screw (or

OUT)

Two switches controlling a light fixture. Both will be 3-way switches. Each switch will have insulated wires connected to three screws plus a bare copper or green insulated wire to a green ground screw. One of these wires is connected to a screw of a different color (not green) or labeled COMMON. Tag this wire on both switches to identify when rewiring.

3c - Three or More-Location Control fixture.



 Connect the green ground wire on the Dimmer to the bare copper or green

Note 3.)

ground wire in the wallbox. (See Important

 Connect either of the wires, disconnected from the removed switch, to the brass

Connect the remaining wire, disconnected

from the removed switch, to the **black**

This operation has now been completed.

screw terminal on the Dimmer

screw terminal on the Dimmer.

Reference Wiring Diagram

Brass 🔍 🛛 Blue

Green

± Ground

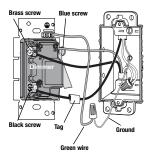
Black

Live

120 V~ 60 Hz

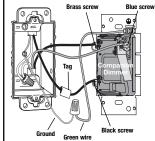
7c - Two-Location Control

One location will be replaced with a Dimmer and the other with a Companion Dimmer.



Wiring Dimmers VT-600M. VT-1000M: • Connect the areen around wire on the Dimmer to the **bare copper** or **green** ground

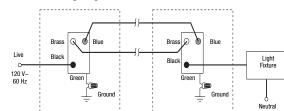
- wire in the wallbox. (See Important Note 3.) • Connect the tagged wire, disconnected from the removed switch, to the **black** screw terminal on the Dimmer.
- Connect one of the remaining wires. disconnected from the removed switch, to the brass screw terminal on the Dimmer.
- Connect the remaining wire, disconnected from the removed switch (note wire color), to the blue screw terminal on the Dimmer.



Wiring Companion Dimmer (VT-AD): • Connect the green ground wire on the Companion Dimmer to the bare copper or green ground wire in the wallbox.

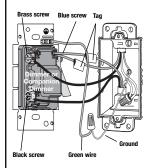
- (See Important Note 3.) Connect the tagged wire, disconnected from the removed switch, to the black screw terminal on the Companion Dimmer.
- Connect the same color wire connected to the blue screw terminal on the Dimmer (wire color noted above) to the **blue** screw terminal on the Companion Dimmer.
- Connect the remaining wire, disconnected from the removed switch, to the brass screw terminal on the Companion Dimmer. This operation has now been completed.

Reference Wiring Diagram



7d - Three or More-Location Control

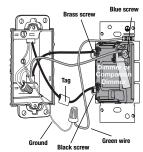
One location will be replaced with a Dimmer and the others with Companion Dimmers. Only one Dimmer can be used with up to four Companion Dimmers.



Replace the 4-way switch(es):

Note: 4-way switches may be replaced with either a Dimmer or a Companion Dimmer.

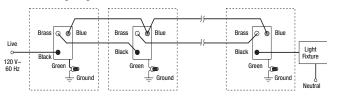
- Connect the green ground wire on the Dimmer/Companion Dimmer to the bare copper or green ground wire in the wallbox. (See Important Note 3.)
- Connect both of the tagged wires (note their color), disconnected from the removed 4-way switch, to the **blue** screw terminal on the Dimmer/Companion Dimmer (one wire to the screw and the other to the push-in terminal)
- · Connect one of the remaining wires, disconnected from the removed switch, to the black screw terminal on the Dimmer/Companion Dimmer.
- · Connect the remaining wire, disconnected from the removed switch, to the **brass** screw terminal on the Dimmer/Companion Dimmer.



Replace the 3-way switches:

- Connect the green ground wire on the Dimmer/Companion Dimmer to the bare copper or **areen** ground wire in the wallbox. (See Important Note 3.)
- Connect the tagged wire, disconnected from the removed switch, to the **black** screw terminal on the Dimmer/Companion Dimmer
- Connect the same color wire, connected to the blue screw terminal on the Dimmer/Companion Dimmer (that replaced a 4-way switch; wire color noted previously) to the **blue** screw terminal on the Dimmer/Companion Dimmer.
- · Connect the remaining wire, disconnected from the removed switch, to the brass screw terminal on the Dimmer/Companion Dimmer. This operation has now been completed.

Reference Wiring Diagram



Mounting the Dimmer or Companion Dimmer(s) to the Wallbox

• Form wires carefully into the wallbox, mount and align Dimmer (and Companion Dimmer). Install the front module and the wallplate. Note: Do not overtighter mounting screws. Plug in front module Snap on wallplate

Turning Power ON

• Turn the power ON at the circuit breaker (or replace the fuse).

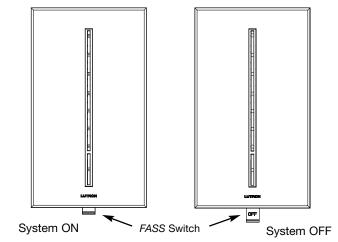


Dimmer Operation

Turning the System ON/OFF

Turn the system on by pushing the Front Accessible Service Switch (FASSTM) up. Pulling the FASS switch down, removes power from the load.

Note: The FASS switch is not used during normal operation.



Important Notice:

To replace bulb(s), power may be conveniently removed by pulling the FASS switch down on the Dimmer or any Companion Dimmer. For any procedure, other than routine lamp replacement, power must be turned OFF at the main electrical panel.

Minimum Load Chart*

Single-Pole	40 W / VA		
One Dimmer and one Companion Dimmer	60 W/VA		
One Dimmer and two Companion Dimmers	80 W/VA		
One Dimmer and three Companion Dimmers	100 W/VA		
One Dimmer and four Companion Dimmers	135 W/VA		

* Vierti Dimmers and Companion Dimmers have minimum load requirements. Do not use where the total lamp wattage is less than the minimum load shown in the chart

Limited Warranty

(Valid only in U.S.A., Canada, Puerto Rico, and the Caribbean.) Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

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